STA

Asst /1800 7/8/65 Col. Jour information Please pass on to

STAT

information and file of look forward to working with you. Williams of CARLISLE STATIONERS

Declass Review by NGA.

July 8, 1955

STAT

TAT	
	Fost Utilice Box 8043 Southwest Station Washington, D.G. 20024
	Subject: Contract
	Dear Sir:
ΓΑΤ	execute the subject contract and two signed copies are returned herewith. The third copy, of the three copies transmitted in your letter of June 28, 1965, is being retained in our file in accordance with your instructions
•	In compliance with the request in your transmittal letter, we specifically verify the delivery dates set forth in the contract. Services will be furnished throughout the period of performance of the contract from 1 July 1965 through 30 June 1966 as required by the Contracting Officer and his Technical Representative.
	Article VIII Conflict of Interest of the subject contract requires that the Contractor inform the Contracting Officer in writing of the mames of all firms and/or individuals by which the Contractor is retained or employed in any respect. In compliance with the requirement the following list is hereby submitted:
	a.) Currently active firms:
ΓΑΤ	

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	We will advise the Contracting Officer of any proposed agreements with firms in addition to the above as required by Article VIII of the subject contract.
	In compliance with Article IX "Security Requirements," we assume that receipt of the sponsor's security clearance constitutes approval in writing by the Contracting Officer for assignment of employees to this work. The work assignments to be made in accordance with the clearance level received.
STAT	the opportunity to provide professional services and is very pleased to enter into this contract. We shall diligently strive to maintain a high caliber of performance to your complete satisfaction.
	Very truly yours,

STAT

EQUISITION OR OTHER PURCHASE AUTHORITY	CON	TRACT/TASK ORDER NO.	
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	P S W	ost Office Box 8043 outhwest Station ashington, D.C. 200	
ME	CONTRACTO		
n-		NL 33	
Technical Services for In-Ho PROPRIATION AND OTHER ADMINISTRATIVE DA	use Backup		
PROPRIATION AND OTHER ADMINISTRATIVE DA	TA		
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is negotiated contract is entered into pursuande.	<u> </u>		
de. is contract is entered into, by and between the I ntracting Officer executing this contract, and ab corporated in the State of	United States of Americove named Contractor	dan kasabadan di 1999 d	•
e parties hereto agree that the Contractor shall th th in the attached Schedule, or Task Orders, iss	furnish the facilities a ued hereunder, for the	and deliver all supplies and e consideration stated therei	d perform all the services set
	ontract shall be subjections. To the external	or any inconsistency bety	ween the Schedule and General
e rights and obligations of the parties to this c rse hereof, attached Schedule and General Provi ovisions, and any specifications or other provision the General Provisions shall control. To the Schedule shall control.	ons which are made a extent of any incons	istency between the Schedu	and sederal I lovisions,
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ington 25, D. C.

SECURITY NOTE

This contract and correspondence relating thereto must be handled in strict accordance with classified handling and storage instructions furnished the contractor under separate cover by the procuring activity.

NOTE: Contractor, if a corporation, should cause the following certificate to be executed under its corporate seal, provided that the same officer shall not execute both the contract and the certificate.				
CERTI	FICATE			
	, certify that am the of the corporation named as Contractor herein; that			
	, who signed this contract on behalf of the Con-			
tractor, was then	of said corporation; that said			
contract was duly signed for and in behalf of said corporation by authority of its governing body, and is				
within the scope of its corporate powers.				
	(SIGNATURE) (Corporate Seal)			
CONTRACTOR'S STATEMENT (OF CONTINGENT OR OTHER FEES			
a full-time bona fide employee working solely for the Cont has, has not, paid or agreed to pay to any c working solely for the Contractor) any fee, commission, pe the award of this contract, and agrees to furnish informat	not, employed or retained any company or person (other than ractor) to solicit or secure this contract; and (b) that he ompany or person (other than a full—time bona fide employee rcentage or brokerage fee, contingent upon or resulting from ion relating thereto as requested by the Contracting Officer. g the term "bona fide employee," see General Services Admin—fed. Reg. Dec. 31, 1952, Vol. 17, No. 253.)			
TERMS ANI	CONDITIONS			
he signs, must appear. For example: "John Doe Company, by John Smith, Secretary," "Treasurer," or as the case may be. 2. LABOR INFORMATION Attention is invited to the possibility that wage determinations may have been made under the Walsh-Healey Public Contracts Act providing minimum wages for employees engaged in the manufacture for sale to the Government of the supplies covered by this contract. Information in this connection, as well as general information as to the requirements of the act	time will be computed from date of delivery of the supplies to carrier when delivery and acceptance are at point of origin or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of those points, or from date correct invoice or voucher (properly certified by the Contractor) is received in the office specified by the Government if the latter date is later than the date of delivery. 4. SAMPLES: Samples of items, when required, must be submitted within the time specified and at no expense to the Government. If not destroyed by testing, they will be returned at Contractor's request and expense, unless otherwise specified in the Schedule. 5. GOVERNMENT-FURNISHED PROPERTY No material, labor, or facilities will be furnished by the Government unless otherwise provided in the Schedule. 6. AGENTS Contracts signed by an agent must be accompanied by evidence of his authority. 7. ALTERATIONS Any alterations in this contract made by the Contractor must be initialed by both the Con-			

provisions, etc. may be obtained from Wage and Hour tions pertaining to the supplies or services. Failure to do so and Public Contracts Division, Department of Labor, Wash-will be at the Contractor's risk. In case of mistake in ex-

tension of price the unit price will govern.

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ARTICLE I - SCOPE OF WORK:

The Contractor shall provide such services as may be set forth in specific Tasks under this Contract.

ARTICLE EI - PERFORMANCE OF SERVICES:

The extent and character of the work to be done by the Contractor under this Contract shall be subject to the supervision, direction, control and approval of the Contracting Officer or his authorized Technical Representative.

ARTICLE III - PERIOD OF PERFORMANCE:

The Contractor shall furnish services as set forth in this Contract at such times as may be required by the Contracting Officer or his Technical Representative during the period 1 July 1965 through 30 June 1966.

ARTICLE IV - COMPENSATION/FUNDING:

There is hereby obligated for the aforesaid services an amount of subject to the availability of Fiscal Year 1966 Funds, for services to be performed during the period 1 July 1965 to 30 June 1966. The obligated amount is, as indicated, an estimated amount, it being understood that complete reimbursement and payment for the aforesaid services by the Contractor shall be in accordance with Section F, hereunder, entitled, Time and Material Provisions:

ARTICLE V - PAYMENTS:

(a) Hourly Rates:

CATEGORY

RATES PER HOUR

Principal Associate Senior Associate Senior Designer Clerical

(b) Materials (Including Subcontracts):

Any materials furnished by the Contractor at the request of the Technical Representative of the Contracting Officer shall be at net cost to the Contractor.

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(c) Records:

The Contractor agrees to make available at the office of the Contractor at all reasonable times during the period of performance hereunder and for three (3) years thereafter any of the Time Records for inspection or audit by the Contracting Officer or his duly authorized representative.

ARTICLE VI - GOVERNMENT-FURNISHED EQUIPMENT:

Government owned equipment in the Contractor's possession shall be maintained, controlled and accounted for in accordance with Article 11 entitled "Government Property" under Section F, hereunder.

ARTICLE VII - TRAVEL:

Travel expenses shall be reimbursed as follows:

- (a) Necessary travel expenses actually incurred by employees of the Contractor in performance of work under this Contract.
- (b) Travel by automobile for required travel of employees of the Contractor under this Contract shall be reimbursed at a rate not to exceed ten cents (\$.10) per mile and such reimbursement shall be considered in lieu of the actual costs of such travel.
- (c) Subsistence expenses actually incurred by employees of the Contractor in the performance of work hereunder shall be reimbursed at a rate not to exceed \$20.00 per day.

ARTICLE VIII - CONFLICT OF INTEREST:

The Contractor shall, at the commencement of this Contract, inform the Contracting Officer in writing of the names of all firms and/or individuals by which the Contractor is retained or employed in any respect. Thereafter, the Contractor shall, prior to concluding any agreement with a firm and/or individual, advise the Contracting Officer of the proposed agreement and such agreement shall not be entered into by the Contractor without the prior written consent of the Contracting Officer.

ARTICLE IX - SECURITY REQUIREMENTS:

The association of the Sponsor with the work to be performed under this Contract is classified CONFIDENTIAL. The employees of the Contractor involved in this work will be exposed to documents, materials and

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information that are security classified up to and including TOP SECRET. Accordingly, only such employees of the Contractor as have been approved by the Contracting Officer in writing may be assigned to this work. No security classified material may be removed from the Sponsor's premises nor shall the Contractor generate any written records pertaining to such security classified material nor orally disclose same to any other person(s) (including other Contractor officials and/or employees) without specific written authorization from the Contracting Officer.

The provisions of the "Security Requirements for Contractors" and the "Contractor's Secrecy and Security Agreement", copies of which have been furnished to the Contractor, are incorporated herein by reference.

When it is deemed necessary to disclose classified information to a subcontractor to accomplish the purposes of this Contract, the Contractor will request permission of the Contracting Officer prior to such disclosure. Upon the granting of permission, the Contractor shall cause to be inserted in all subcontracts under this Contract a provision similar to this article.

TASK NO. I

ARTICLE I. STATEMENT OF WORK

Item 1. SPECIAL VISITATIONS

The Contractor shall make visitations to the firms listed below as directed by the Technical Representative of the Contracting Officer for a specific investigation. Each individual visitation shall be requested by the Technical Representative of the Contracting Officer.

LIST OF FIRMS

"Application of the Linear Phasolver to submicron measuring techniques and equipment."

"Application of Phosphor Screens to Projection viewing Techniques and equipment."

"Research Program on Application of liquid/ air bearings to film processing utilizing the HTA/5 and related equipment and design and

Name of Contractor

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manufacture of the wide film Separation Sepratron Processor."

"Solid state counters for measuring engines."

(e) (f)

ARTICLE II. CHANGES

It is mutually understood and agreed that the Contracting Officer may add to the above lists such additional firms as may be required and may delete from the said lists firms for which the services of the Contractor are no longer required.

ARTICLE III. REPORTS

The Contractor shall furnish technical reports (five copies) of investigations and evaluations performed. Two copies of each technical report shall be forwarded directly to the Contracting Officer and three copies forwarded directly to the Technical Representative.

ARTICLE IV. TECHNICAL CONFERENCES:

At such times as may be required by the technical representative of the Contracting Officer visits shall be made to the premises of the Sponsor in Washington, D. C. by Contractor personnel for the purpose of conferring with the said technical representative of the Contracting Officer regarding problems arising under the Sponsor's contracts with the firms listed in ARTICLE I of this Task or for the purpose of orientation and briefings on pertinent technical aspects of such contracts.

TASK NO. II

ARTICLE I. STATEMENT OF WORK

The Contractor shall conduct studies and investigations for accomplishing the objectives of this task. The work encompassed in this task is preliminary and pathfinding in nature and the specifics may be revised from time to time by the Technical Representative of the Contracting

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Officer. If certain items warrant further work beyond the preliminary and pathfinding phase and require more extensive work than is appropriate for this task, then those items shall be set forth in separate tasks if performed by the Contractor.

1. Submicron measurement error analysis

Evaluate the physical and metallurgical properties of materials used in measuring engine construction to determine comparative suitability to submicron measuring. Materials to be considered are: meehanite, steel, granite, aluminum, magnesium and glass, and other materials that may be particularly suitable. Evaluate physical properties and structural concepts appropriate to achievement of vibration levels and structural rigidity compatable with submicron measuring requirements. Evaluate methods of measuring the small vibration levels expected in a high performance structure.

2. Signal strength of broadcast radiation of closed-circuit TV

Determine test facilities needed and rental cost and closed-circuit TV equipment needed and rental cost (if any) or loan arrangements. Determine what applicable data are available from manufacturers.

3. Special purpose microscopes, magnifiers, and accessories

Obtain and evaluate information as directed by the Technical Representative of the Contracting Officer. Investigate application of closed-circuit TV to microscope viewing.

4. Automatic target recognition

Obtain and evaluate information as directed by the Technical Representative of the Contracting Officer. Investigate "Terrain texture descrimination" as a simplified initial phase of automatic target recognition.

Lamps for Rear Projection Viewers

(a) Contractor shall review literature and make an economic and performance per watt profile of the types of lamps applicable to rear projection viewers such as 1000 watt XENON, MERCURY XENON, Quartz Iodine, and Lungston. Performance analysis shall include estimates of heat rejection, visible light level and spectral distribution obtainable from band pass filters.

Name of Cor	itractor
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(b) <u>Co</u>	nsultants:	The analysi	s and report	preparation	ı will be
accomplished					
	In this co	onnection, C	ontractor is	authorized	to utilize
the services	of		sultant at a		
	The tota	al amount fo	r consultant	services wi	ll not
exceed	withou	t the prior	written autho	orization of	the Con-
tracting Off	icer.	_			

6. Evaluation Criteria

In order for the customer to establish an in-house capability to evaluate new systems and concepts, some guidelines are desired. To this end, effort on this task will be devoted to determining specific procedures for evaluating:

- (a) Information productivity of new systems and concepts.
- (b) The impact on exploitation methods for extracting the information productivity of new systems and concepts.

7. Autocorrelation Function

Establish the character of suitable input objects (such as edge, line, noise) for the unambiguous extraction of the line spread function and/or the modulation transfer function from computations of the autocorrelation function.

Determine the experimental procedure for digital computer or electronic analogue computation of the autocorrelation function from microdensitometer traces of the photographic images of the above objects.

To determine whether the spatial power spectrum of a scene can be derived from measurements of the autocorrelation function of a photograph of the scene:

- (a) Review literature on measurement of terrain characteristics
- (b) Examine the changing nature of the power spectrum computed from the autocorrelation function of a specific area of the scene as the altitude increases.

8. Laser Metrology

Investigate the use of the helium neon gas laser for measuring engine applications. The use of a laser interferometer and fringe counting for measuring length has problems with counting rate and with vibration and thermal gradients interfering with counting. There are certain precautions which must be taken. Use of a pair of lasers may be more applicable by establishing a controlled heat frequency on the length to be measured which can be phase compared

Name of Contractor

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to a fixed length.

ARTICLE II. CHANGES

It is mutually understood and agreed that the Contracting Officer may add such additional objectives to this task as may be required and may delete objectives for which the services of the Contractor are no longer required.

ARTICLE III. REPORTS

The Contractor shall furnish technical reports (five copies) of investigations and evaluations performed. Two copies of each technical report shall be forwarded directly to the Contracting Officer and three copies forwarded directly to the Technical Representative.

MONTHLY REPORTING

Pursuant to the work under Task No. I and Task No. II of this Contract, it is understood and agreed that Contractor shall furnish monthly narrative reports covering work performed during the reporting period. The Contractor shall also furnish such other reports on specific items relative to supra Tasks as may be requested by the Technical Representative of the Contracting Officer.

INVOICE INSTRUCTION

On all invoices submitted under this Contract, the Contractor shall include the Sponsor approved mailing address for payment.

GENERAL PROVISIONS

The General Provisions cited on the signature page of this Contract shall consist of Sections A & F, attached hereto and made a part hereof. In the event of any discrepancy between the foregoing and the General Provisions, the foregoing shall apply.

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